SMART FAMILY OF COOLING PRODUCTS
Smartech America SmartFreeze SmartHydronics SmartRefrigeration SmartBreeze
www.SmartCoolingProducts.com
1118 First Street E. Humble TX 77338
p. 281.540.2805 / F. 281.540-8847

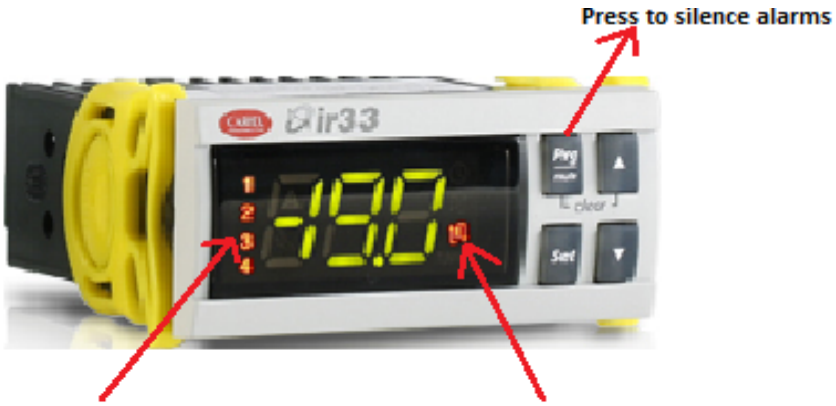
January 7, 2013

Attn: All model SACP rental customers, Smartech representatives and Authorized Service agents.

RE: PLC SET-POINT CHANGE ON ALL SACP rentalized packaged air conditioning units

All Smartech brand, model SACP rental units (Including models SACP20Q, SACP27Q, SACP40Q, SACP60Q, SACP65Q, SACP80Q, SACP20A-HS, SACP28A-HS, SACP40A-HS, SACP60A-HS, and SACP80A-HS) are equipped with a Smart Advance 1 (also called SA66) PLC controller.

Below is a one page cheat sheet on operating that controller.



-**<u>If an output icon is blinking</u>**: the controller is calling for this output activation, but a delay is keeping this activation off for a period of a set time (i.e. minimum output off time of "x" minutes as a protection against compressor cycling, etc.)

-**<u>Viewing and changing set point</u>**: hold SET button for about 1 second to view current set point (number that is flashing). Press UP and DOWN arrow to change value and press SET again to store new value.

<u>-Common alarms that will alternate with the temperature on display</u>:

"E01" – Probe 1 error "E02" – Probe 2 error

"E04" – High temperature alarm "E05" – Low temperature alarm

-**<u>Accessing the parameters</u>**: Hold down both SET and PRG for 5 seconds until you see "0". Hold the UP arrow until you get to 77. Press SET. You have entered the parameter list. Press UP to toggle through the various parameters, SET to enter/exit the parameter, UP and DOWN to change the value, and finally **<u>you must hold PRG for 5 seconds to store all of the changes</u>**.

Here are some commonly used parameters:

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c0 = Operating mode. If set to 1, all outputs will stage up and down proportionally as cooling outputs. If set to 2, all outputs will stage up and down proportionally as heating outputs.
c18 = Unit of measure 0= Celcius, 1= Fahrenheit
St1 = controller set point (cut-out temperature)
P1 = differential for St1. This defines the cut-in temperature for each output. In cooling, this value is added to St1. In heating, this value is subtracted from St1. Furthermore, this differential is distributed evenly among all outputs on the controller during proportional staging. For example: a 2-output SA66 model is programmed in cooling mode (c0=1) with St1 = 50 and P1 = 10. Output 1 will come ON at 55 and OFF at 50. Output 2 will come ON at 60 and OFF at 55. Above 60, both outputs will always be ON.

* Please note: changing set-points on the PLC can void the equipment warranty. Please verify changes with an approved service agent.

Sincerely,
Ryan M. Baker - Vice President of Equipment Sales